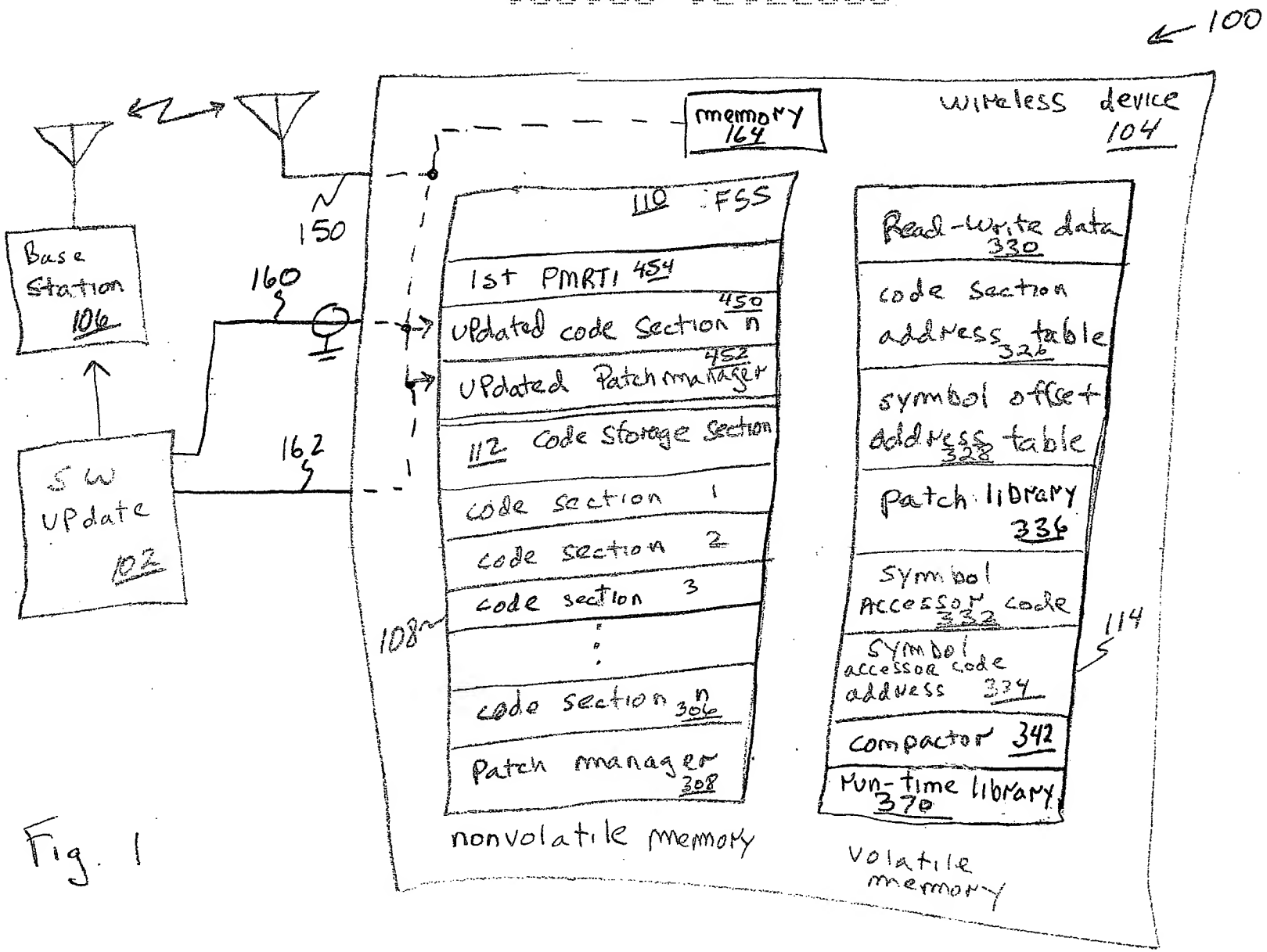
100
wireless device 104
memory 164
110 FSS
1st PMRTI 454
updated code section n 450
updated Patch manager 452
112 Code Storage Section
code section 1
code section 2
code section 3
code section n 306
Patch manager 308
108
nonvolatile memory
Read-write data 330
code section address table 326
symbol offset address table 328
Patch library 336
Symbol accessor code 332
Symbol accessor code address 334
compactor 342
Run-time library 370
114
volatile memory
Base Station 106
150
160
162
SW update 102

Fig. 1

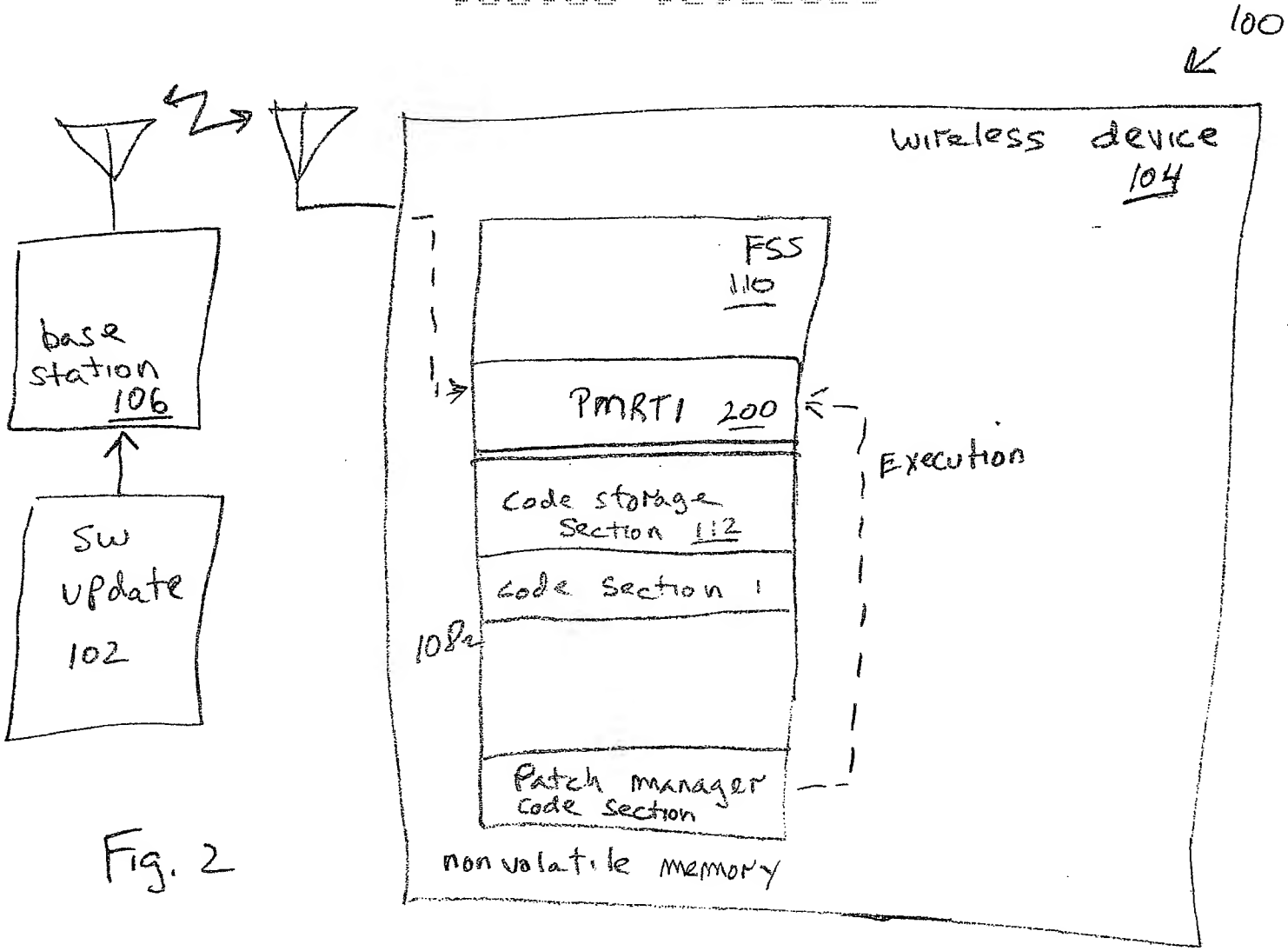
100
wireless device
104
base station
106
SW update
102
FSS
110
PMRTI 200
Execution
Code storage Section 112
Code Section 1
108a
Patch manager Code Section
non volatile memory

Fig. 2

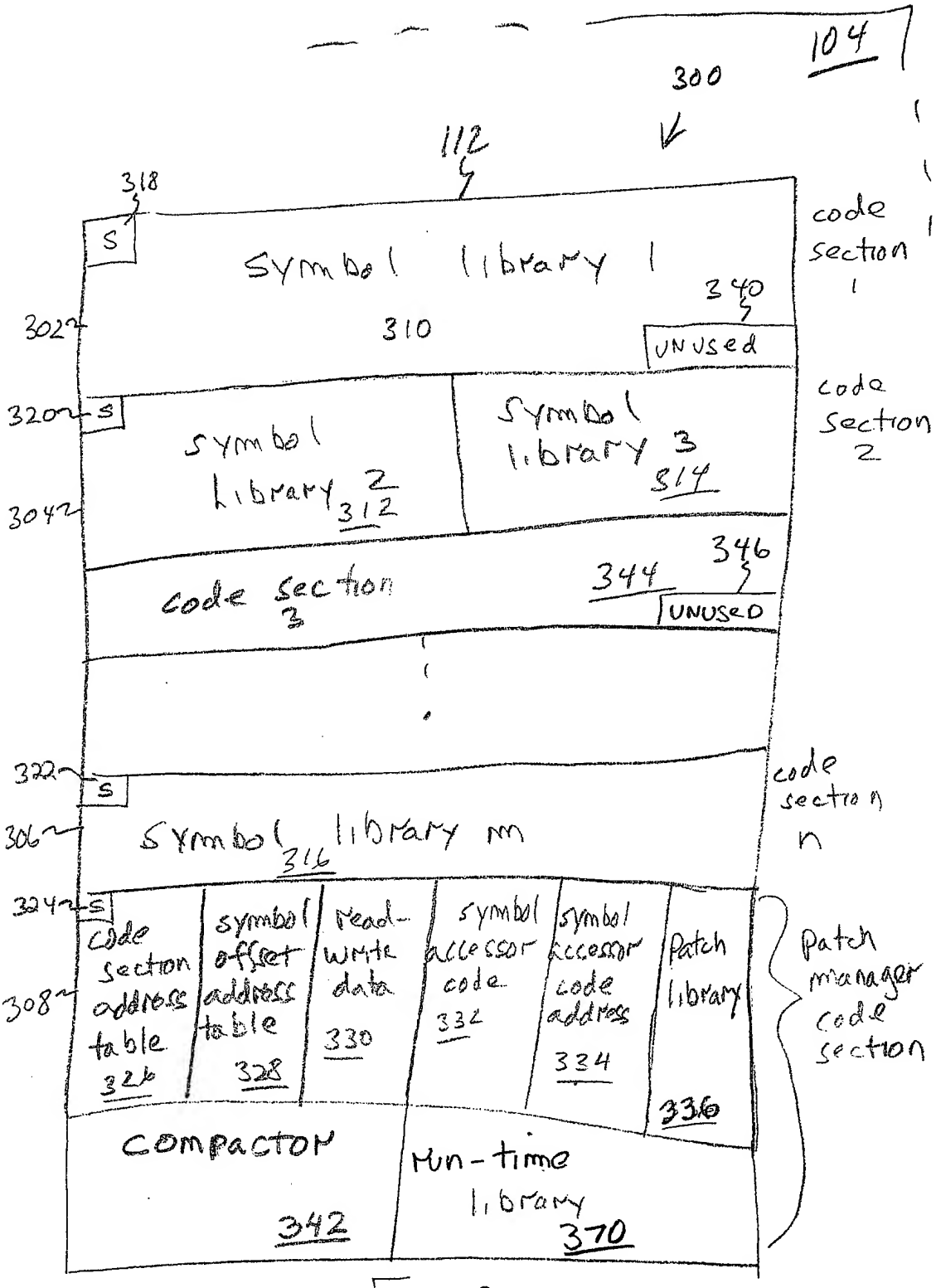
104
300
112
318
S
Symbol library 1
310
340
UNUSED
code section 1
302
320
S
Symbol library 2
312
Symbol library 3
314
code section 2
304
code section 3
344
346
UNUSED
322
S
Symbol library m
316
code section n
306
324
S
code section address table
326
symbol offset address table
328
read-write data
330
symbol accessor code
332
symbol accessor code address
334
patch library
336
patch manager code section
308
COMPACTOR
342
Run-time library
370

Fig. 3

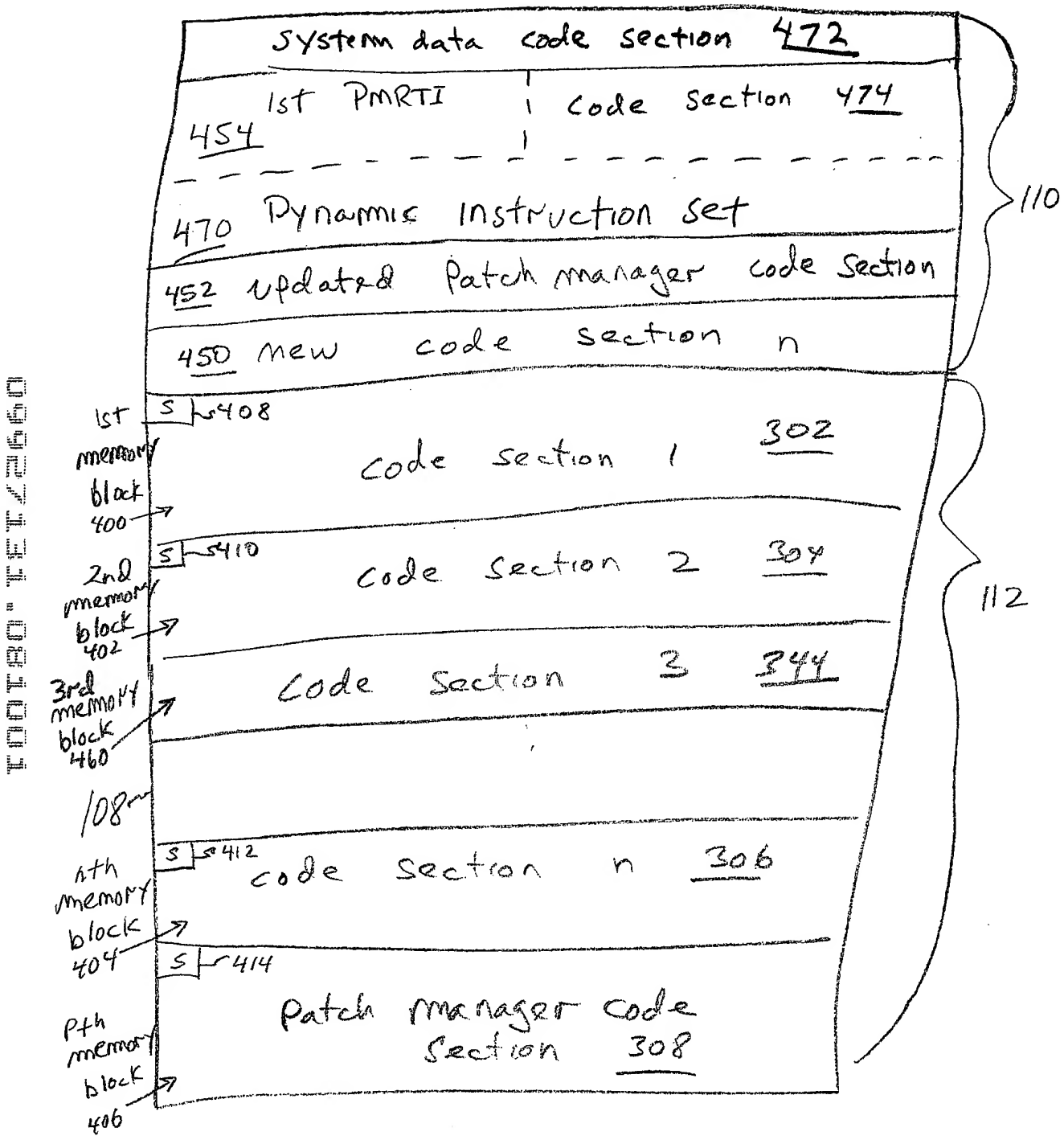
System data code section 472
1st PMRTI 454
Code section 474
470 Dynamic instruction set
452 updated Patch manager code section
450 new code section n
110
1st memory block 400
S 408
Code section 1 302
2nd memory block 402
S 410
Code section 2 304
112
3rd memory block 460
Code section 3 344
108
nth memory block 404
S 412
Code section n 306
S 414
Pth memory block 406
Patch manager code section 308

Fig. 4

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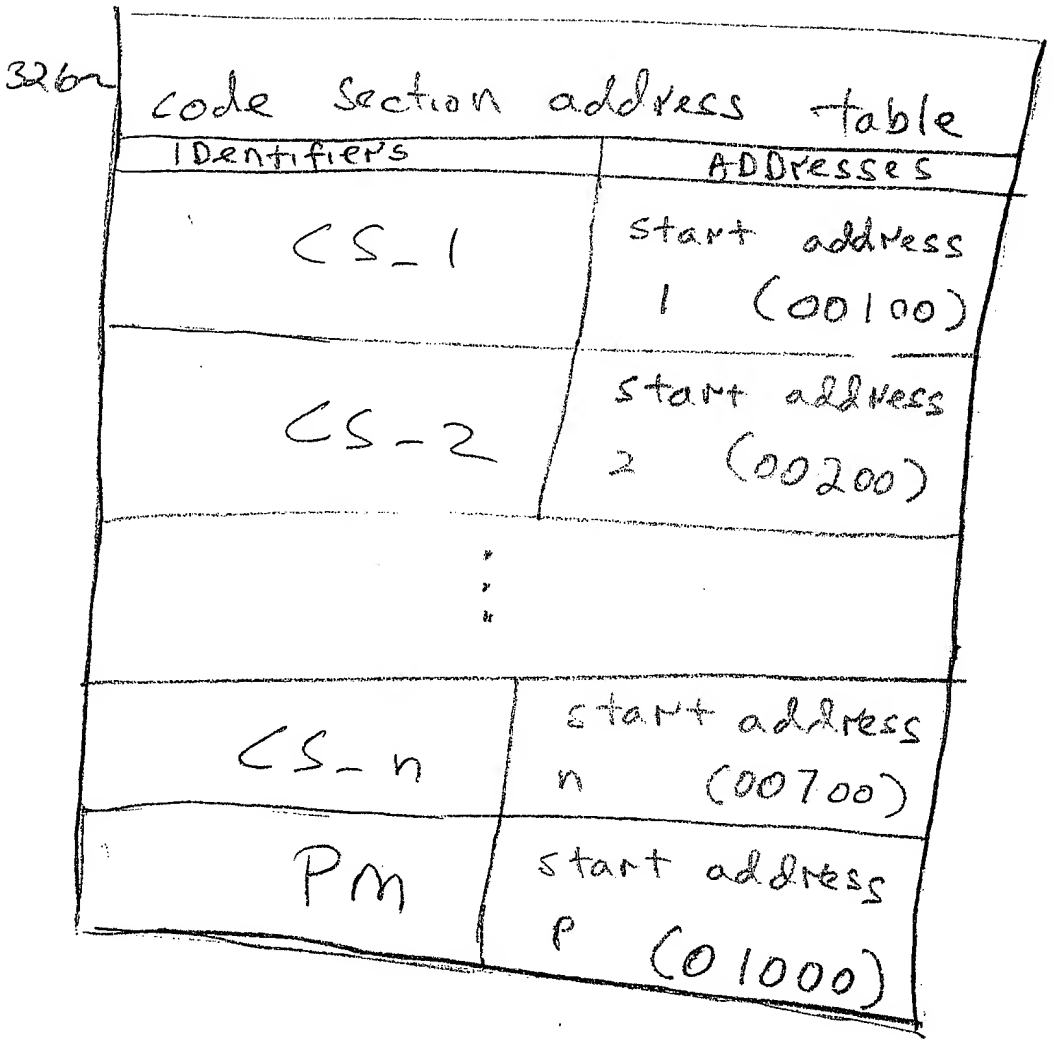


Fig. 5

Document Number 0959

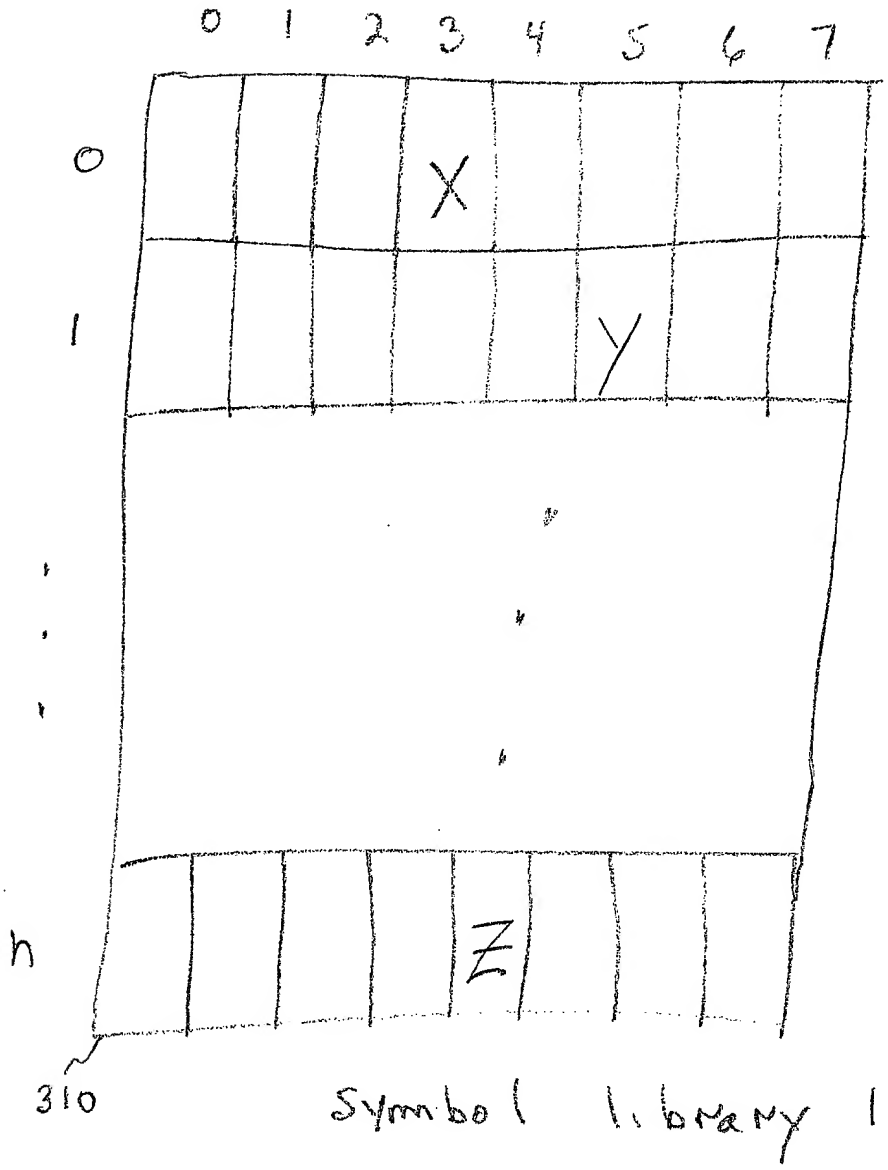
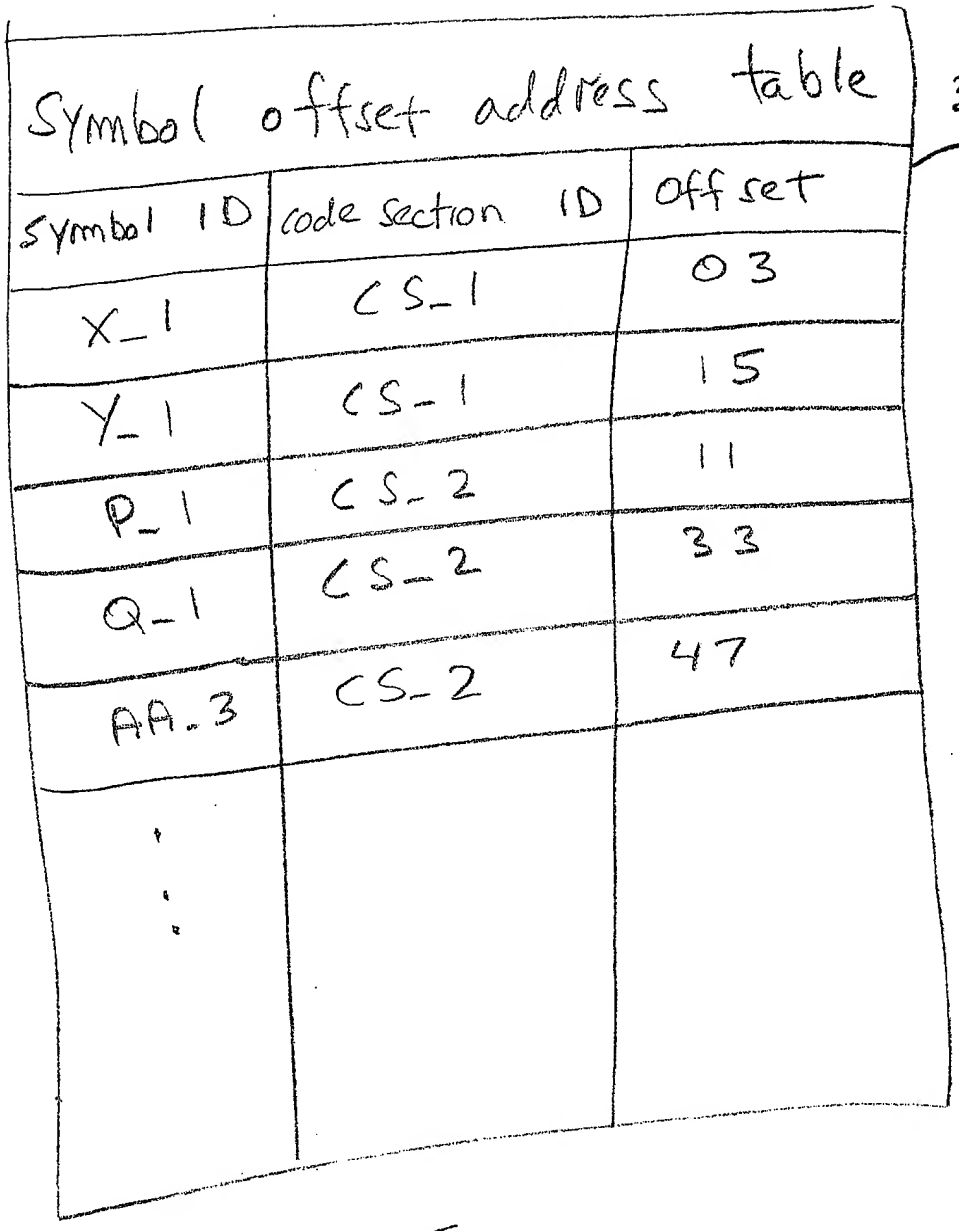


Fig. 6

Docket No. 1662.0080004



Symbol offset address table 328

Symbol ID	code section ID	offset
X_1	CS_1	03
Y_1	CS_1	15
P_1	CS_2	11
Q_1	CS_2	33
AA.3	CS_2	47
⋮		

Fig. 7

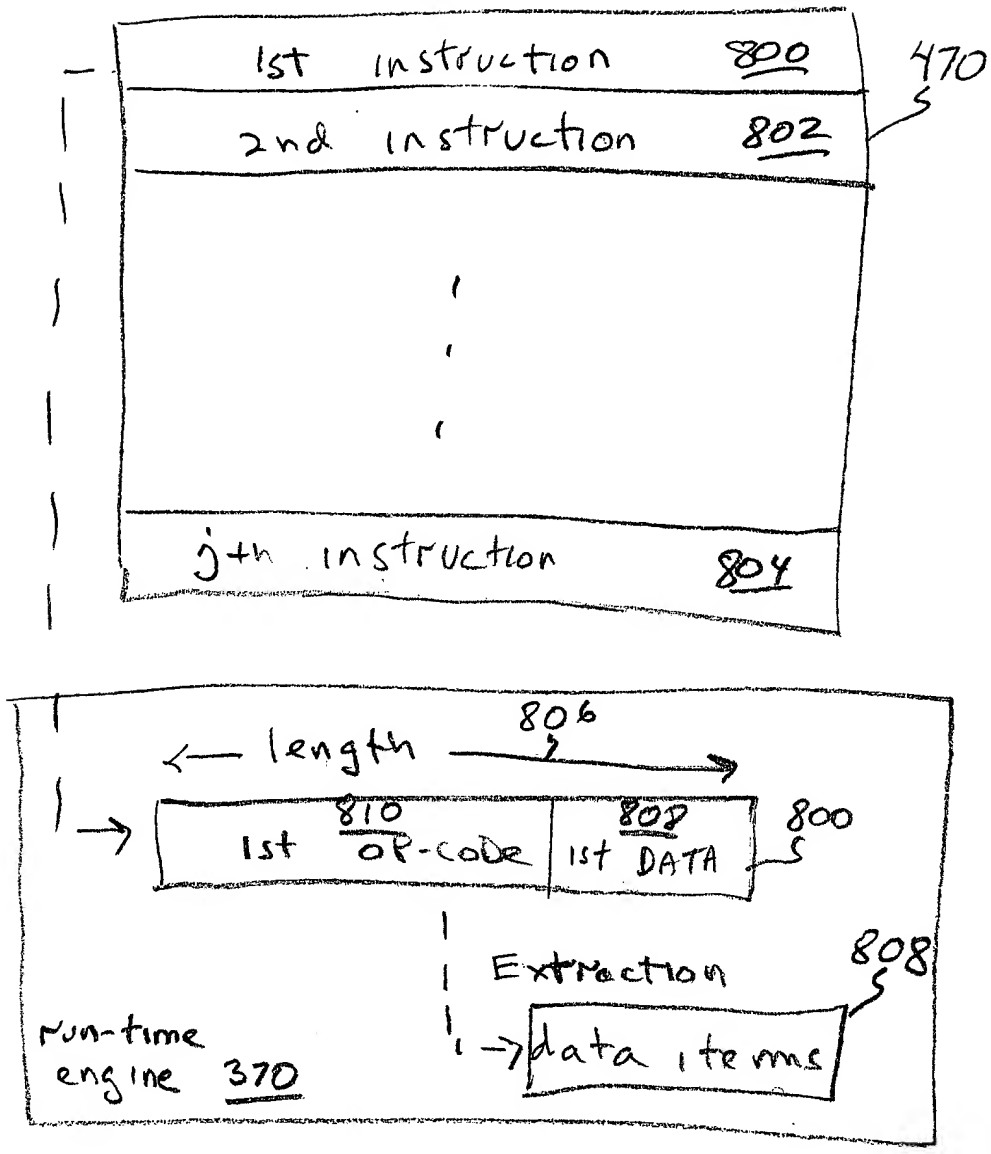

1st instruction 800
2nd instruction 802
j+th instruction 804
470
length
806
810
1st OP-code
808
1st DATA
800
Extraction
808
data items
Run-time engine 370

Fig. 8

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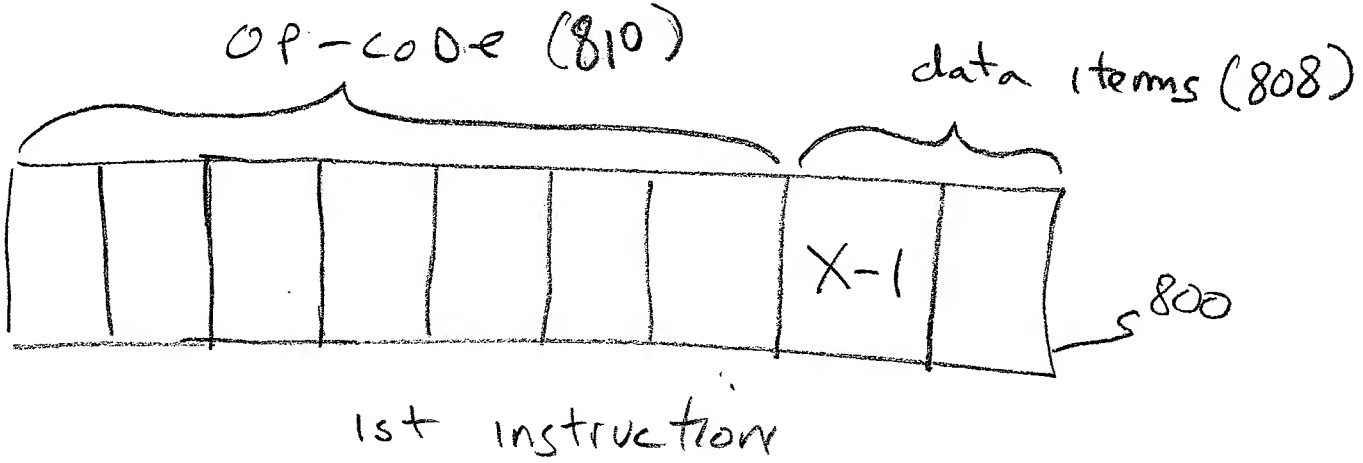
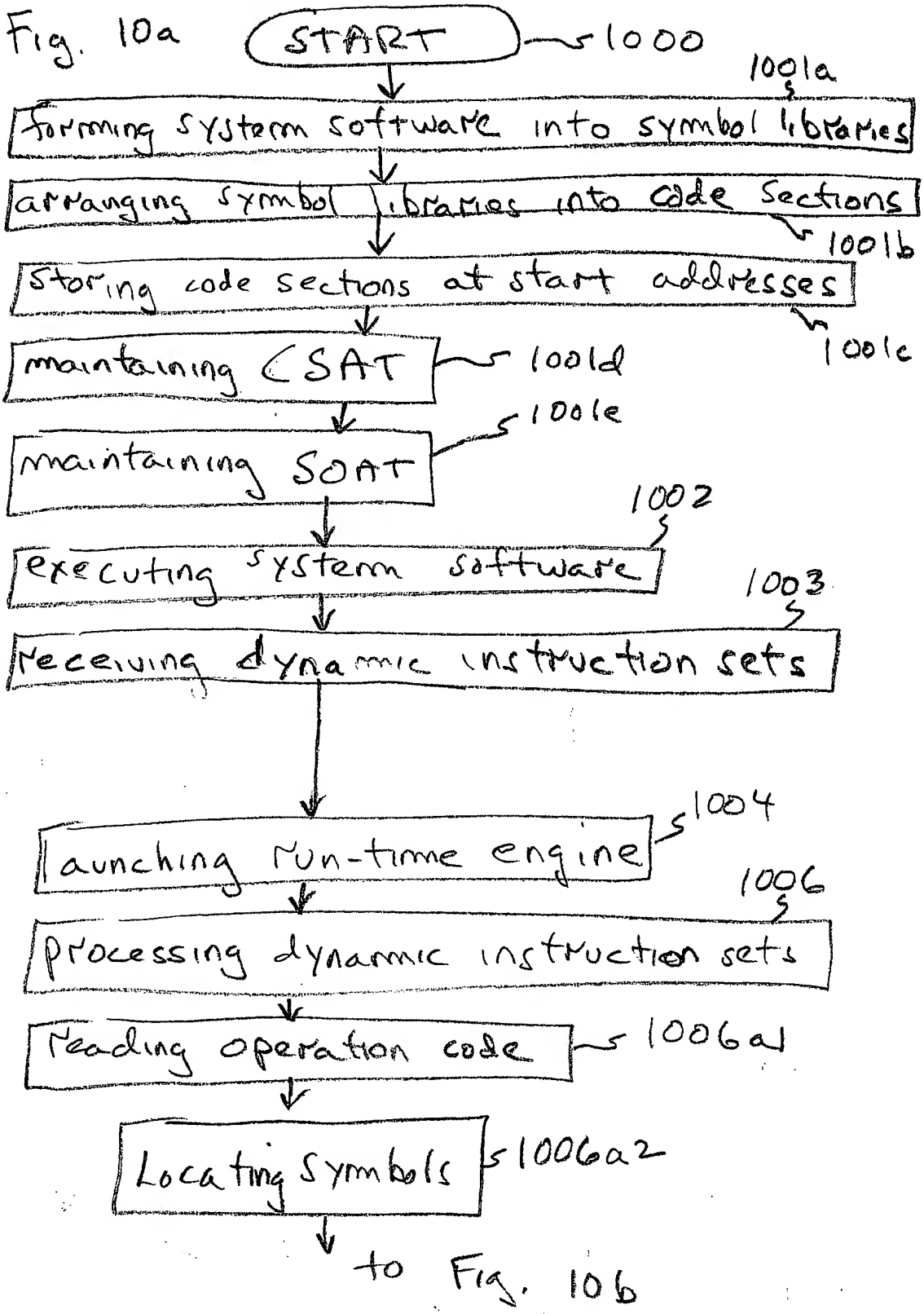


Fig. 9

Fig. 10a


START
1000
1001a
forming system software into symbol libraries
arranging symbol libraries into code sections
1001b
storing code sections at start addresses
1001c
maintaining CSAT
1001d
maintaining SOAT
1001e
1002
executing system software
1003
receiving dynamic instruction sets
1004
launching run-time engine
1006
processing dynamic instruction sets
reading operation code
1006a1
Locating Symbols
1006a2
to Fig. 10b

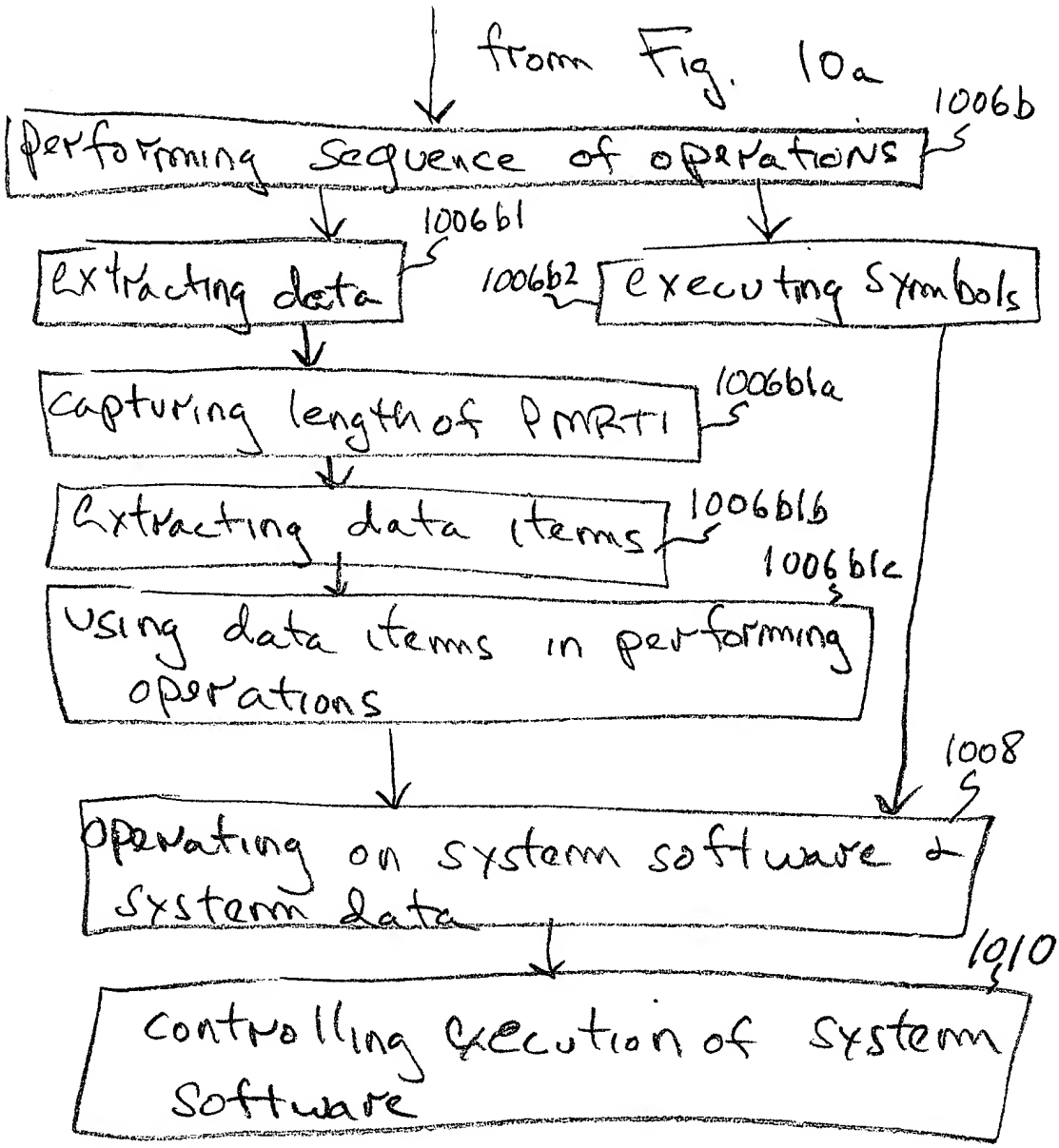

from Fig. 10a
performing sequence of operations
1006b
extracting data
1006b1
executing symbols
1006b2
capturing length of PMRTI
1006b1a
extracting data items
1006b1b
using data items in performing operations
1006b1c
operating on system software & system data
1008
controlling execution of system software
1010

Fig. 10b

Fig. 11

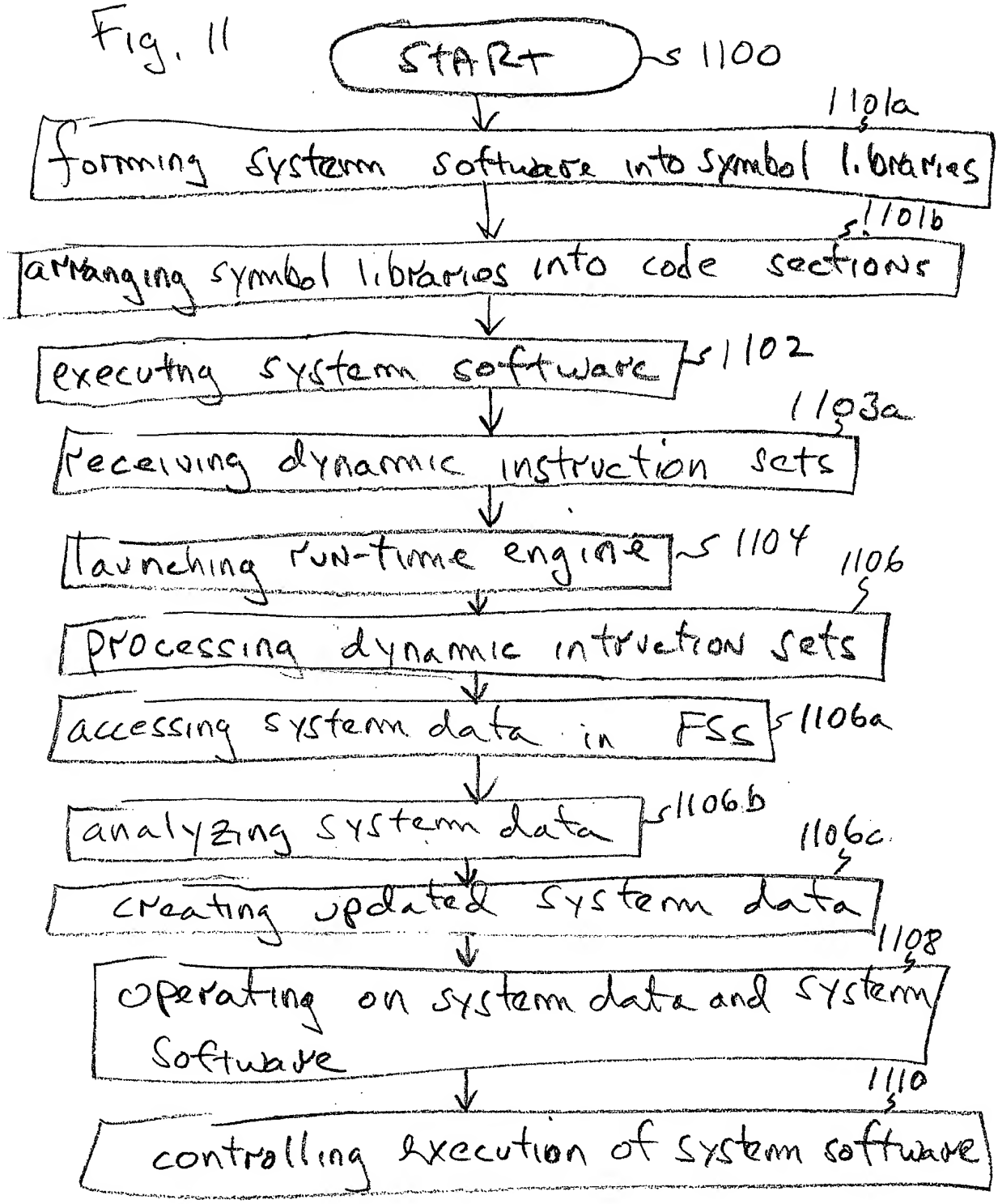

START
1100
1101a
forming system software into symbol libraries
1101b
arranging symbol libraries into code sections
1102
executing system software
1103a
receiving dynamic instruction sets
1104
launching run-time engine
1106
processing dynamic intruction sets
1106a
accessing system data in FSS
1106b
analyzing system data
1106c
creating updated system data
1108
operating on system data and system software
1110
controlling execution of system software

Fig. 12

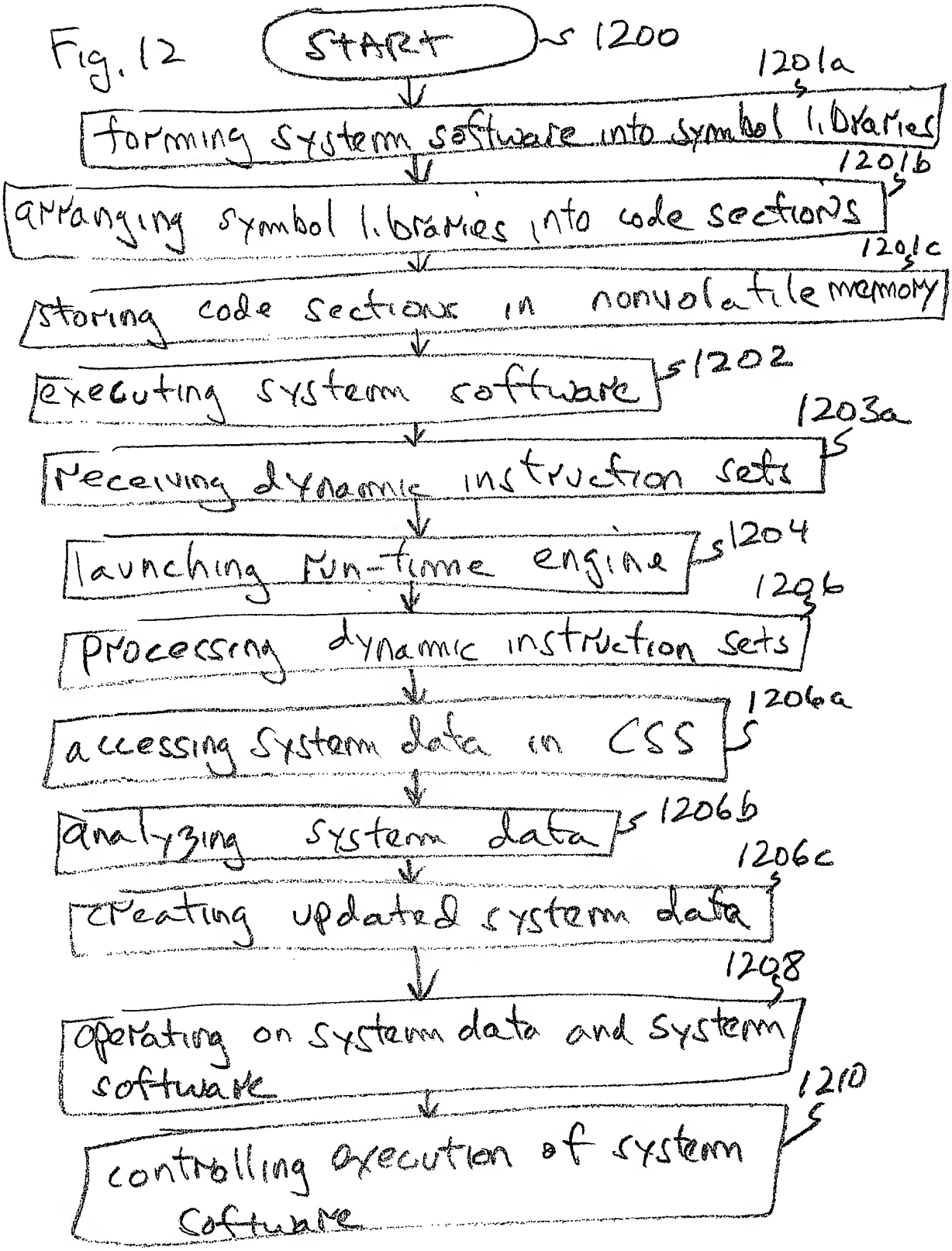


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Fig. 13

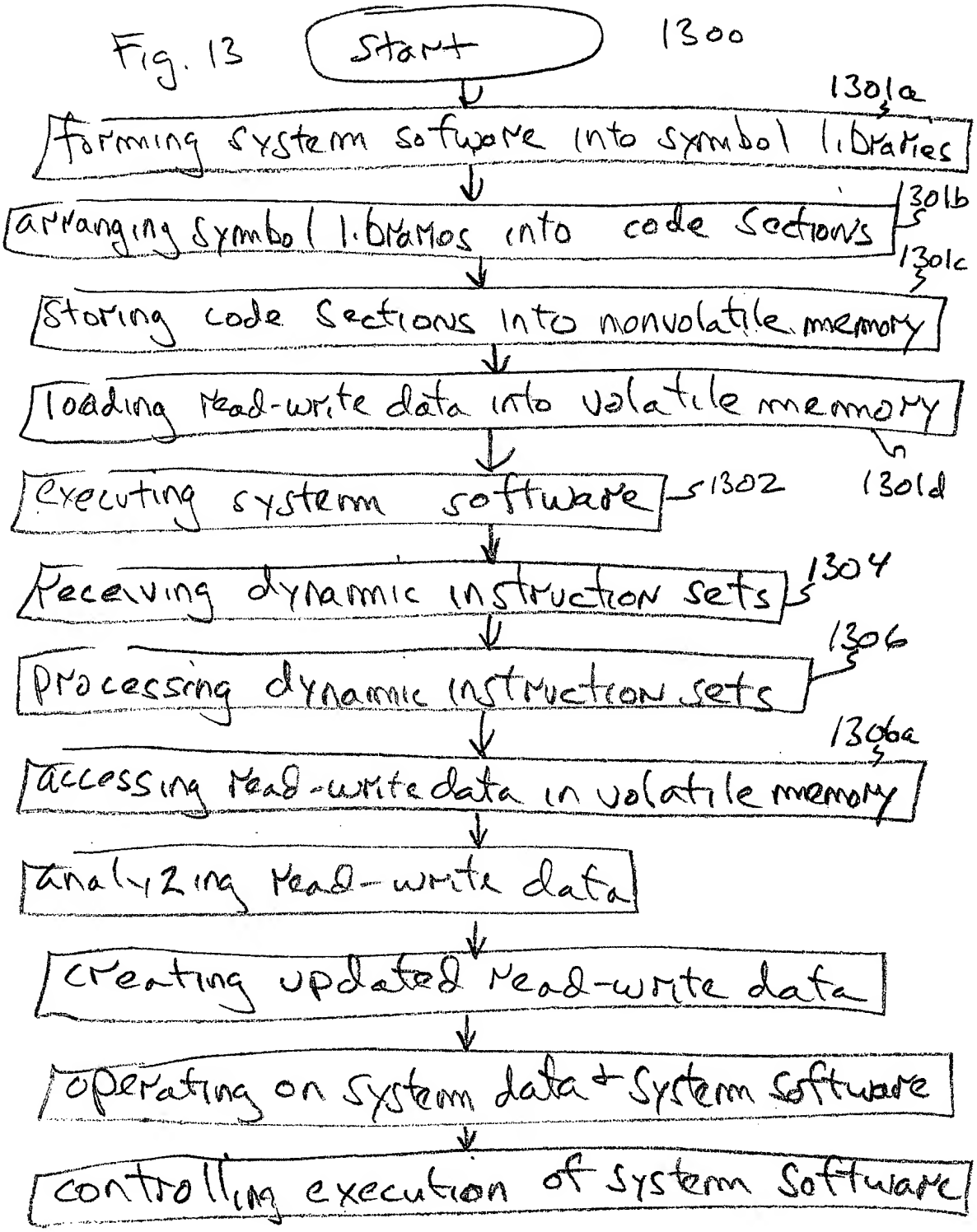

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Fig. 14

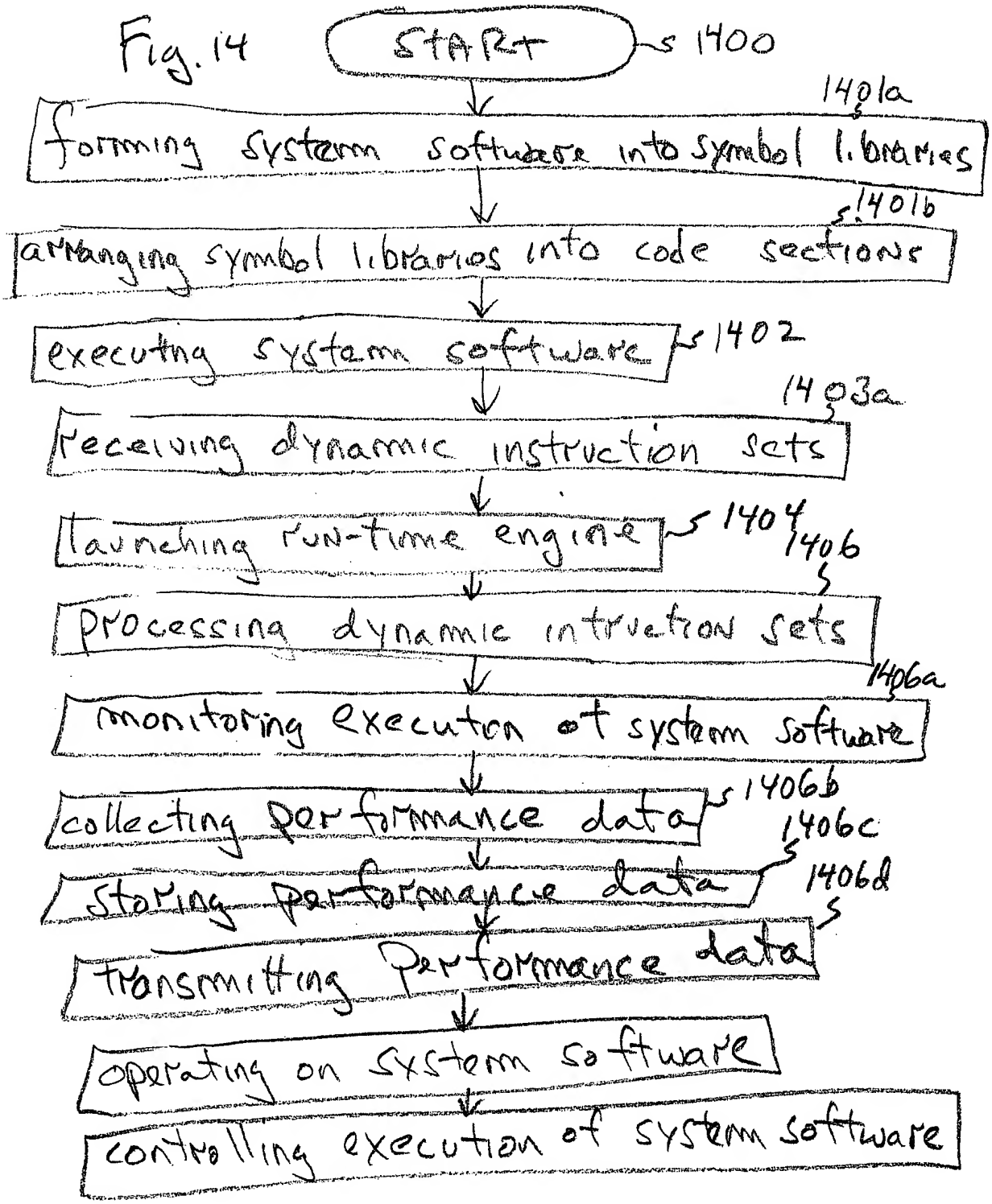

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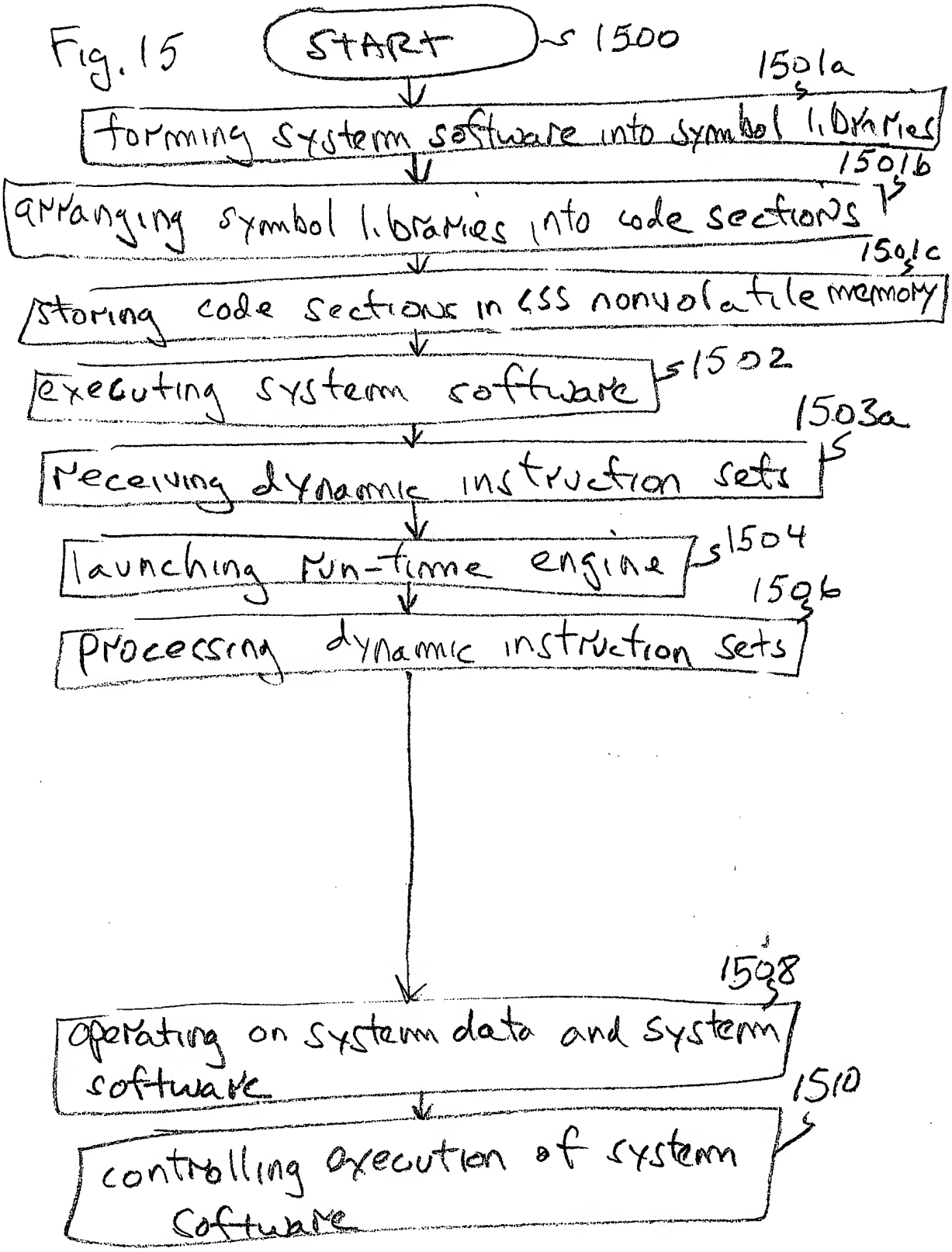
Fig. 15


START
1500
1501a
forming system software into symbol libraries
1501b
arranging symbol libraries into code sections
1501c
storing code sections in ESS nonvolatile memory
1502
executing system software
1503a
receiving dynamic instruction sets
1504
launching run-time engine
1506
processing dynamic instruction sets
1508
operating on system data and system software
1510
controlling execution of system software